

**SAFETY DATA SHEET**

according to Regulation (EC) No.1907/2006

Version 2.6 Revision Date 02.03.2017

**Safety Data Sheet  
Adenosine Cyclic Phosphate****Section 1: Identification of the Substance/Preparation and of the Company/Undertaking****Identification of the substance or preparation****1.1 Product identifiers**

- INCI Name** : Adenosine Cyclic Phosphate
- Chemical Name** : Adenosine, cyclic 3',5'-(hydrogen phosphate);  
Adenosine 3' ,5' -cyclic monophosphate
- REACH No.** : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

- Identified uses** : Skin conditioning, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

- Company** : M.C.Biotec Inc.  
47-505, Demin Huayuan  
Nantong, China
- Tel** : +86-139-13923033
- Fax** : +86-10-80115555 ext 441505
- E-mail address** : [mc@mcbiotec.com](mailto:mc@mcbiotec.com)
- website** : [www.mcbiotec.com](http://www.mcbiotec.com)

**1.4 Emergency telephone number**

- Emergency Phone** : +86-139-13923033

**Section 2: Hazards Identification****2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**2.2 Label elements**

The product does not need to be labelled in accordance with EC directives or respective national laws.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Section 3: Composition and Information on Ingredients

#### 3.1 Substance

Synonyms : 3',5' -Cyclic AMP  
Adenosine 3',5' -cyclophosphate  
cAMP

Formula : C<sub>10</sub>H<sub>12</sub>N<sub>5</sub>O<sub>6</sub>P

Molecular Weight : 329.21 g/mol

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Adenosine Cyclic Phosphate		
CAS-No. 60-92-4	--	<= 100 %
EC-No. 200-492-9		

### Section 4: First Aid Measures

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

##### In case of skin contact

Wash off with soap and plenty of water.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### Section 5: Fire Fighting Measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Oxides of phosphorus

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

### Section 6: Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

#### 6.2 Environmental precautions

No special environmental precautions required.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

### Section 7: Handling and Storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -20 °C

Storage class (TRGS 510): Non Combustible Solids

#### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### Section 8: Exposure Controls/Personal Protection

#### 8.1 Control parameters

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

###### Eye/face protection

Safety glasses with side-shields conforming to EN166 . Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

###### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

###### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

###### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

###### Control of environmental exposure

Do not let product enter drains.

### Section 9: Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>a) Appearance</b>	<b>Form:</b> powder <b>Colour:</b> white
<b>b) Odour</b>	No data available
<b>c) Odour Threshold</b>	No data available
<b>d) pH</b>	No data available
<b>e) Melting point/freezing point</b>	Melting point/range: 260 °C - dec.
<b>f) Initial boiling point and boiling range</b>	No data available it.
<b>g) Flash point</b>	No data available
<b>h) Evaporation rate</b>	No data available
<b>i) Flammability (solid, gas)</b>	No data available
<b>j) Upper/lower flammability or explosive limits</b>	No data available
<b>k) Vapour pressure</b>	No data available
<b>l) Vapour density</b>	No data available
<b>m) Relative density</b>	No data available
<b>n) Water solubility</b>	No data available
<b>o) Partition coefficient: n-octanol/water</b>	No data available
<b>p) Auto-ignition temperature</b>	No data available
<b>q) Decomposition temperature</b>	No data available
<b>r) Viscosity</b>	No data available
<b>s) Explosive properties</b>	No data available
<b>t) Oxidizing properties</b>	No data available

#### 9.2 Other safety information

no data available

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

no data available

**10.4 Conditions to avoid**

no data available

**10.5 Incompatible materials**

Bases, Reducing agents, Oxidizing agents

**10.6 Hazardous decomposition products**

Other decomposition products - No data available

In the event of fire: see section 5

**Section 11: Toxicological Information****11.1 Information on toxicological effects****Acute toxicity**

No data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

Rat

Other cell types

DNA inhibition

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: AU7357600

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Section 12: Ecological Information**

**12.1 Toxicity**

Toxicity to fish No data available

Toxicity to daphnia and other aquatic invertebrates No data available

Toxicity to algae No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

no data available

**Section 13: Disposal Considerations**
**Waste treatment methods**
**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**Section 14: Transport Information**
**14.1 UN number**

ADR/RID:-                      IMDG: -                                      IATA: -

**14.2 UN proper shipping name**

ADR/RID:                      Not dangerous goods

IMDG:                      Not dangerous goods

IATA:                      Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -                      IMDG:-                                      IATA:-

**14.4 Packaging group**

ADR/RID:-                      IMDG:-                                      IATA:-

**14.5 Environmental hazards**

ADR/RID: no                      IMDG Marine pollutant: no                                      IATA: no

**14.6 Special precautions for user**
**Further information**

No data available

**Section 15: Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out



**Section 16: Other Information****Disclaimer**

*The information above is based on our present knowledge. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. Users should make their own investigations to determine the suitability of the information for their particular purposes.*

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